

(No Model.)

W. C. NORTH.
VAPOR STOVE.

No. 272,462.

Patented Feb. 20, 1883.

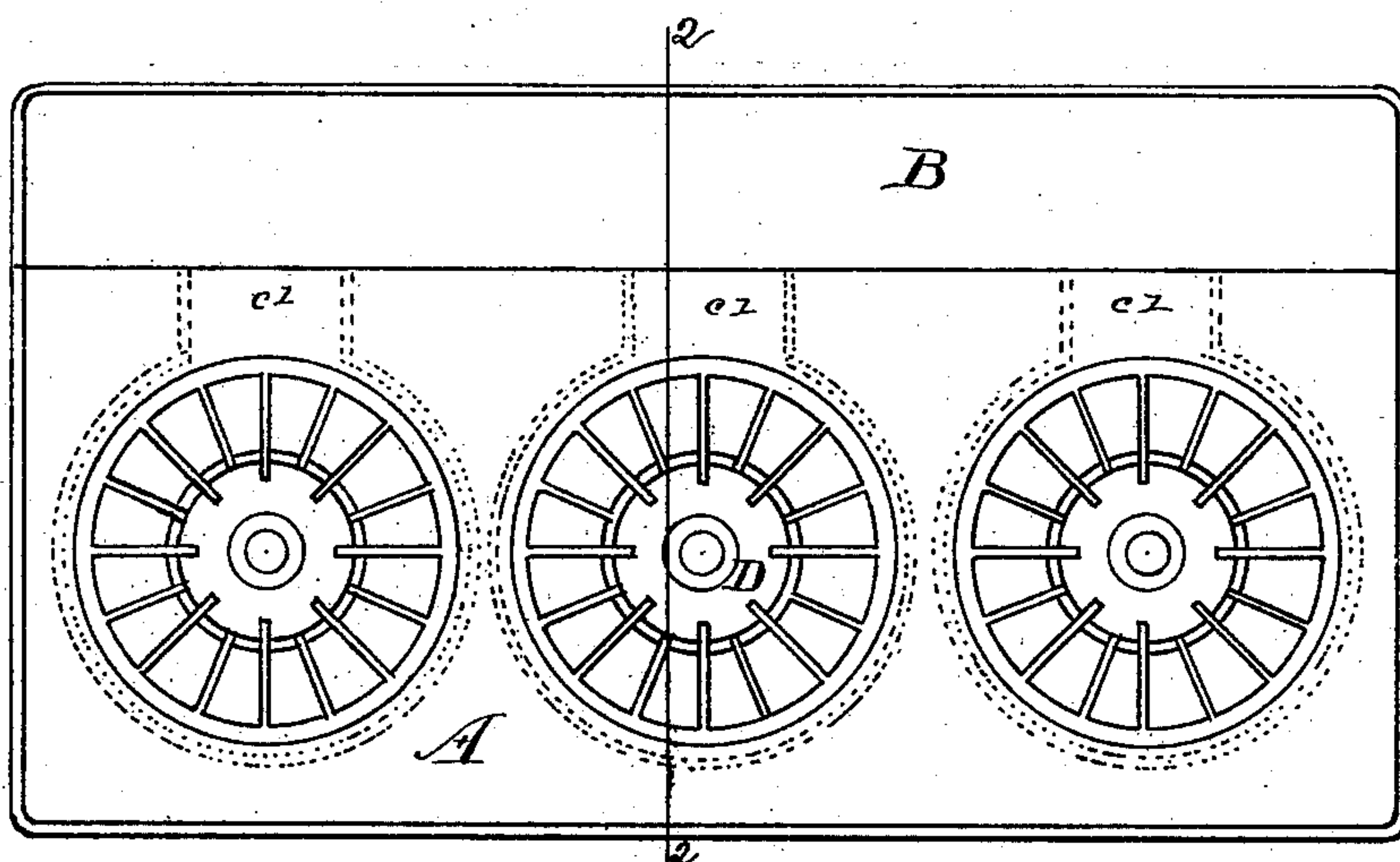


Fig. 1.

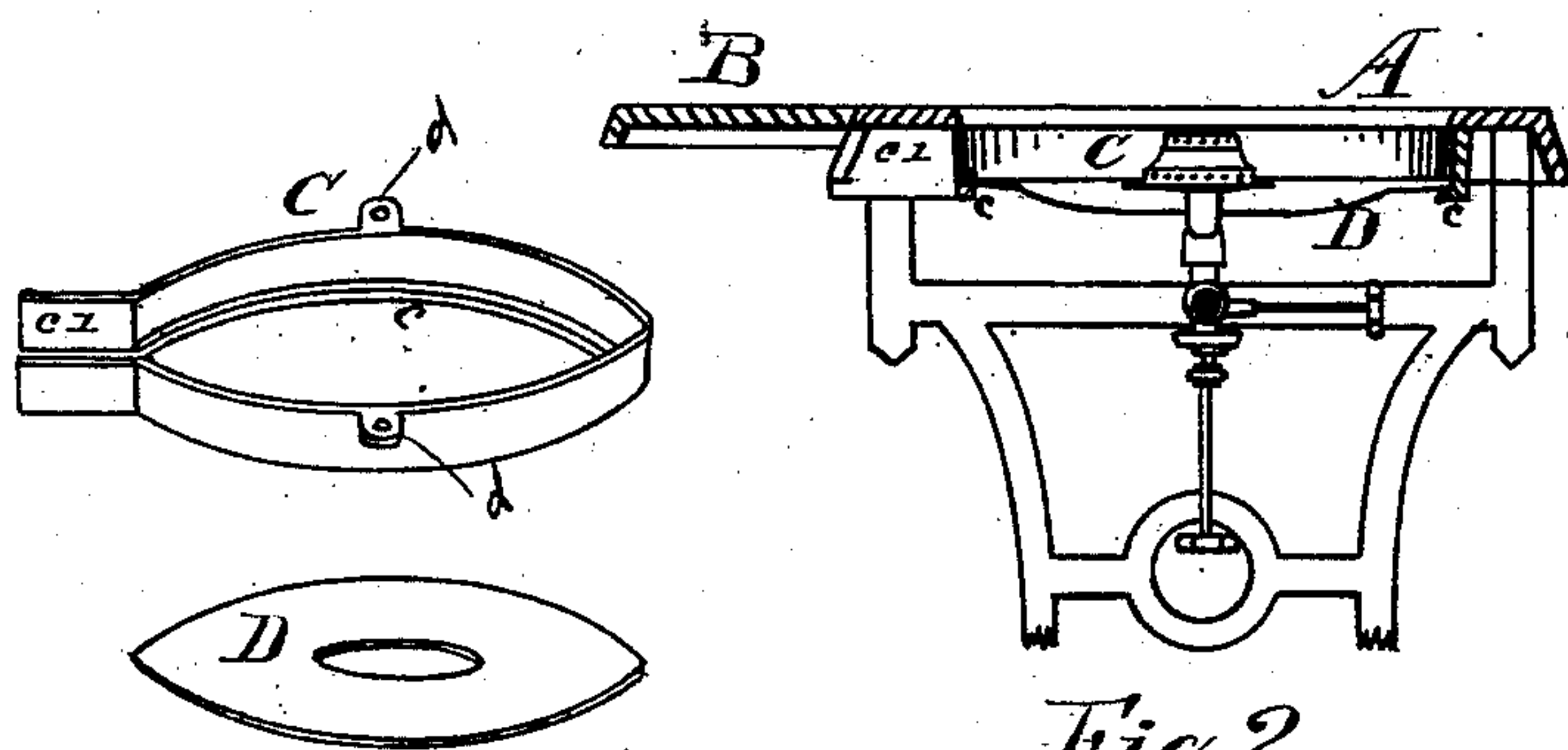


Fig. 2.

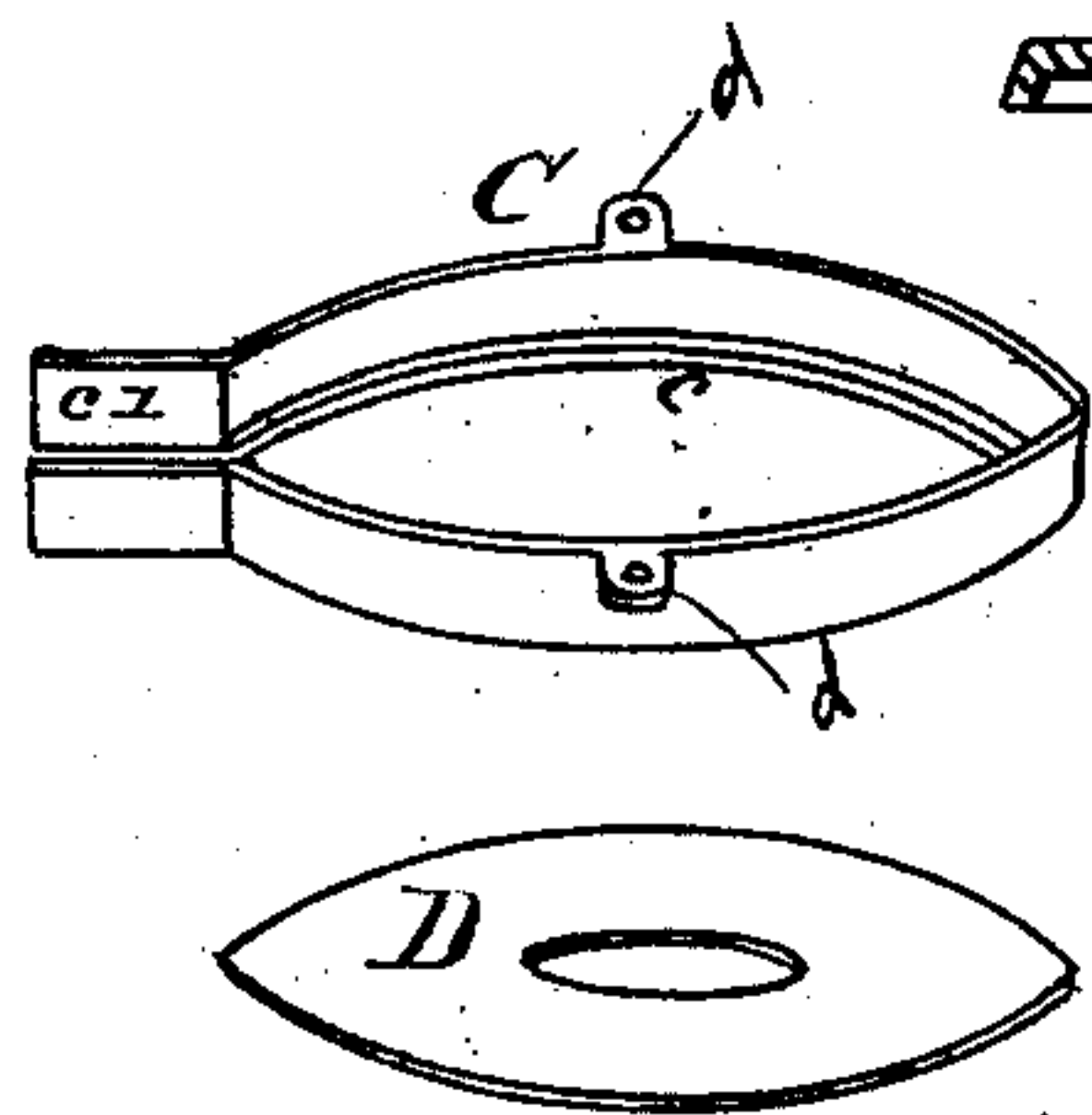


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM C. NORTH, OF CLEVELAND, OHIO.

VAPOR-STOVE.

SPECIFICATION forming part of Letters Patent No. 272,462, dated February 20, 1883.

Application filed December 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. NORTH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Vapor-Stoves of which the following is a specification.

This improvement relates to stove-tops; and it consists of a chamber beneath the gratings in the pot-holes and surrounding the burners, said chamber having a rear passage-way for conducting heat back under the back extension or shelf for the purpose of utilizing the surplus by distributing it underneath the rear shelf for keeping dishes or cooking-vessels warm. By this arrangement the surplus heat from one burner is distributed to the back, while the balance of the top remains unheated.

In the drawings, Figure 1 is a top or plan view, the dotted lines showing form and location of the aforesaid chambers. Fig. 2 is a cross-section in line 2 2 of Fig. 1. Fig. 3 is a detached view of the chamber and conducting passage-way and the bottom plate thereof.

A is the stove-top, provided with the usual pot-holes and the rear shelf or extension, B, which may be made with open-work or solid, as may be desired. In connection with the said pot-holes I make a depending circular flange, C, which nearly surrounds the burner, having the rear side made open, and provided with an open neck or passage, C', reaching through the back flange of the top A to the underside of the aforesaid shelf B. This flange forms the sides of a chamber beneath the gratings in the pot-holes, which is closed at the bottom by a plate, D, resting on a ledge or lugs, c, having a central opening, by which it

may be put in place over the burner. The plate D lies just beneath the commingling-chamber of the burner. The flames of the burner are therefore inclosed in this chamber, and thus the heat of the burner confined therein, the surplus heat finds egress through the aforesaid neck or opening C', and spreads or is distributed underneath and heats the shelf. The plate D also prevents downward radiation of heat, and protects the supply-pipe from becoming heated, which is a source of trouble in all vapor-stoves, as the heat generates vapor in the pipe, and thus reduces the pressure from the fount and weakens the effect on the burners.

This is an improvement on my patent of December 13, 1881, in which a double-top stove is claimed. My objects in making this improvement are to decrease the weight, to lessen the cost, and to economize in the use of fuel, as by this construction greater benefits are derived from the burners than heretofore.

These chambers are very simple in construction, consisting of a ring having ears or lugs *d d* for securing it to the under side of the table.

Having described my invention, I claim—

In a vapor-stove, the chamber formed by the depending circular flange C and plate D, having the opening or neck C', leading to the rear, for conveying surplus heat from the burner underneath the back shelf or extension, B, as and for the purpose described.

WILLIAM C. NORTH.

Witnesses:

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